

FAULT TRACES OF DIBBLEE (1972b)

FAULT TRACES OF HERD (in press)

Site investigation showing location, orientation, and length of trench. Trench less than 100 feet long indicated by x. Fault exposed in trench indicated by red line, showing approximate orientation. Fault traces not necessarily Holocene active (refer to text).

Figure 2b (to FER-106). Location and sources of fault traces shown on 1974 SSZ Map of Lick Observatory quadrangle. Sources of fault data since 1974 are also shown.

REFERENCES USED TO COMPILE FAULT DATA

Lick Observatory Quadrangle

Cotton, W.R., 1972, Preliminary geologic map of the Franciscan rocks in the central part of the Diablo Range, Santa Clara and Alameda Counties, California: U.S. Geological Survey Basic Data Contribution 39, San Francisco Bay Region Environment and Resources Planning Study.

Dibblee, T.W., Jr., 1972, Preliminary geologic map of the Lick Observatory quadrangle, Santa Clara County, California: U.S. Geological Survey open-file map.

Radbruch, D.H., 1968, Map showing recently active breaks along the Hayward fault zone and the southern part of the Calaveras fault zone, California: U.S. Geological Survey open-file map.

Earth Sciences Associates
(trench excavated 8-80)

fault of Herd (in press) offsets
Holocene alluvial deposits of
Dibblee (1972b)

fault of Herd (in press) offsets
Holocene alluvial deposits of
Dibblee (1972b)

linear drainage & saddle
total headcut
Mt. Misery
alluvial beach
(possible stream terrace)
scarp?

breaks of Thompson Creek
indicates that Holocene
offset along Hayward flt
does not extend this far to south

thrust fault
expressed as tonal
lineament (sp over shale, both Mesozoic & units)

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

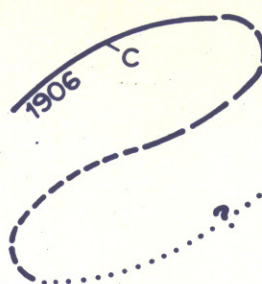
1 5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET

DATUM IS MEAN SEA LEVEL

MAP EXPLANATION

Potentially Active Faults



Faults considered to have been active during Quaternary time; solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by creep or possible creep.

Aerial photo lineaments (not field checked); based on youthful geomorphic and other features believed to be the results of Quaternary faulting.

Special Studies Zone Boundaries



These are delineated as straight-line segments that connect consecutively numbered turning points so as to define one or more special studies zone segments.



Seaward projection of zone boundary.

STATE OF CALIFORNIA SPECIAL STUDIES ZONES

Delineated in compliance with
Chapter 7.5, Division 2 of the California Public Resources Code

LICK OBSERVATORY QUADRANGLE

OFFICIAL MAP

Effective: July 1, 1974

106-4

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